

Serial No. 10/767,677

Atty. Doc. No. 2002P06700US

Amendments To The Claims:

Please amend the claims as shown. Applicants reserve the right to pursue any canceled claims at a later date.

1. (currently amended) A combustion chamber for a gas turbine, comprising:
a combustion chamber inner wall and a combustion chamber outer wall, defining an annular combustion space between the inner wall and the outer wall;
a first lining formed from a plurality of heat shield elements arranged on an interior of the outer wall defining a first inner space between the heat shield element and the outer wall;
a second lining formed from a plurality of heat shield elements arranged on an exterior of the inner wall defining a second inner space between the heat shield element and the inner wall;
and
a cooling medium adapted to flow within the first inner space and second inner space,
wherein the inner wall comprises a plurality of wall elements abutting each other at a horizontal parting joint, the wall elements connected to each other in the area of the parting joint by a plurality of screw connections oriented at ~~an~~ a non-perpendicular angle to the inner wall surface and the horizontal parting joint.

2. (previously presented) The combustion chamber according to claim 1, wherein a feather key is assigned to a corresponding screw connection.

3. (previously presented) The combustion chamber according to claim 1, wherein a cooling medium supply line is connected to a plurality of cooling medium exit openings via a cooling medium distributor.

4. (previously presented) The combustion chamber according to claim 3, wherein the cooling medium exit openings are dimensioned such that the sum total of the cross-sectional areas of all the cooling medium exit openings of a cooling medium distributor is less than the cross-sectional area of the assigned cooling medium supply line.

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5. (previously presented) The combustion chamber according to claim 4, wherein the first inner space is connected to a cooling medium discharge system via a plurality of holes.

6. (previously presented) The combustion chamber according to claim 1, wherein the heat shield elements are fixed to the combustion chamber inner wall or to the combustion chamber outer wall via a tongue and groove system.

7. (previously presented) The combustion chamber according to claim 5, wherein the combustion chamber is used in a gas turbine.

8. (previously presented) The combustion chamber according to claim 4, wherein the second inner space is connected to a cooling medium discharge system via a plurality of holes.

9. (currently amended) A combustion chamber for a gas turbine, comprising:
an outer wall having an inner side and an outer side, and a first portion and a second portion;

an inner wall having an inner side and an outer side, and a first portion and a second portion;

a first temperature resistant liner ~~attached to~~ positioned on the outer side of the first portion of the inner wall and attached to the inner side of the first portion of the outer wall;

a second temperature resistant liner ~~attached to~~ positioned on the outer side of the second portion of the inner wall and attached to the inner side of the second portion of the outer wall;
and

a plurality of fasteners adapted to removably connect the first and second portions of the inner wall and oriented at a non-perpendicular angle to the inner wall surface and the horizontal parting joint.

10. (currently amended) The combustion chamber as claimed in claim 9, wherein the first portion of the outer wall is an upper half.

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11. (currently amended) The combustion chamber as claimed in claim 9, wherein the second portion of the outer wall is a lower half.

12. (previously presented) The combustion chamber as claimed in claim 9, wherein the inner side of the outer wall and the outer side of the inner wall define a combustion zone for combusting a combustible fuel.

13. (previously presented) The combustion chamber as claimed in claim 9, wherein the liner is formed from a plurality of heat shield elements.

14. (previously presented) The combustion chamber as claimed in claim 13, wherein the heat shield elements are fixed to the inner wall of the outer portion and to the outer portion of the inner wall via a tongue and groove system.

15. (previously presented) The combustion chamber as claimed in claim 9, wherein the fasteners are inter-engaging elements.

16. (previously presented) The combustion chamber as claimed in claim 15, wherein the inter-engaging elements are oriented at an angle relative to the outer surface of the inner wall.

17. (currently amended) The combustion chamber as claimed in claim 9, wherein the fasteners are screws ~~bolts~~.

18. (previously presented) The combustion chamber as claimed in claim 9, wherein a feather key is assigned to a corresponding fastener.

19. (currently amended) The combustion chamber as claimed in claim 9, wherein a first inner space is defined by ~~the~~ a heat shield and the inner surface of the outer wall, and a second inner space is defined by the heat shield and the outer surface of the inner wall.

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20. (previously presented) The combustion chamber as claimed in claim 19, wherein a cooling medium is adapted to flow within the first inner space and second inner space.

21. (new) The combustion chamber according to claim 1, wherein the angle is between 20 degrees and 70 degrees.

22. (new) The combustion chamber as claimed in claim 9, wherein the angle is between 20 degrees and 70 degrees.